



Substitute for form 1449A/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	Not yet Assigned
			Filing Date	December 8, 2003
			First Named Inventor	Julian Adams, et al.
			Group Art Unit	MA 1626
			Examiner Name	MA Janet Coppins
Sheet 1 of 2			Attorney Docket Number	MPI94-008CP2DV2CN5M

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document (MM-DD-YYYY)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
JLC	AA	5,187,157		Kettner, et al.	02-16-1993	Entire document
	AB	5,250,720		Kettner, et al.	10-05-1993	Entire document
	AC	5,106,948		Kinder, et al.	04-21-1992	Entire document
	AD	5,424,904		Kettner, et al.	09-07-1993	Entire document
	AE	6,066,730		Adams, et al.	05-02-2000	Entire document
	AF	5,780,454		Adams, et al.	07-00-1998	Entire document
	AG	6,083,903		Adams, et al.	07-00-2000	Entire document
	AH	5,574,017		Gutheil	11-12-1996	Entire document
	AI	5,990,083		Iqbal, et al.	11-23-1999	Entire document
	AJ	4,261,868		Hora, et al.	04-14-1981	Entire document
	AK	4,369,183		Jones, et al.	01-18-1983	Entire document
	AL	4,499,082		Shenvi, et al.	02-12-1985	Entire document
	AM	4,537,707		Severson, R. Jr.	08-27-1985	Entire document
	AN	4,537,773		Shenvi, A.	08-27-1985	Entire document
	AO	4,842,769		Shulman, et al.	06-27-1989	Entire document
	AP	4,963,655		Kinder, et al.	10-16-1990	Entire document
	AQ	4,997,929		Collins, et al.	03-05-1991	Entire document
	AR	5,030,378		Venegas, M.	07-09-1991	Entire document
	AS	5,169,841		Kleeman, et al.	12-08-1992	Entire document
	AT	5,550,262		Iqbal, et al.	08-27-1996	Entire document
	AU	5,614,649		Iqbal, et al.	03-25-1997	Entire document
JLC	AV	4,510,130		Platt, et al.	04-09-1985	Entire document

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document (MM-DD-YYYY)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Code ⁵ Office ³ (known)	Kind	Number ⁴ (if known)				
JLC	BA	WO	93/01828			02-04-1993	Entire document.	
	BB	EP	0 315 574			05-10-19989	Entire document.	
	BC	WO	95/25533			09-28-1995	Entire document.	
	BD	WO	95/24914			09-21-1995	Entire document.	
	BE	EP	0 145 441			06-19-1985	Entire document.	
JLC	BF	EP	0 293 881			12-07-1988	Entire document.	
	BG	WO	88/10266			12-29-1988	Entire document.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

2

of

2

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First Name of Inventor

Julian Adams, et al.

Group Art Unit

N/A

Examiner Name

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		Code ⁵ Office ³ known)	Kind	Number ⁴ (if				
JL	BH	EP		0 354 522		02-14-1990	Entire document.	
	BI	DE		38 27 340		02-15-1990	Entire document.	
	BJ	EP		0 363 284		04-11-1990	Entire document.	
	BK	EP		0 364,344		04-18-1990	Entire document.	
	BL	EP		0 381 262		08-08-1990	Entire document.	
	BM	EP		0 393 457		10-24-1990	Entire document.	
	BN	WO		91/13904		09-19-1991	Entire document.	
	BO	EP		0 471 651		02-19-1992	Entire document.	
	BP	EP		0 478 050		04-01-1992	Entire document.	
	BQ	WO		92/07869		05-14-1992	Entire document.	
	BR	WO		92/11850		07-23-1992	Entire document.	
	BS	WO		92/12140		07-23-1992	Entire document.	
	BT	EP		0 511 456		11-04-1992	Entire document.	
	BU	WO		92/19707		11-12-1992	Entire document.	
	BV	WO		92/19709		11-12-1992	Entire document.	
	BW	WO		93/21213		10-28-1993	Entire document.	
	BX	WO		93/21214		10-28-1993	Entire document.	
	BY	EP		0 583 536		02-23-1994	Entire document.	
	BZ	WO		94/21668		09-29-1994	Entire document.	
	BBA	WO		94/23045		10-13-1994	Entire document.	
JL	BBB	WO		95/09858		04-13-1995	Entire document.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Not yet Assigned
		Filing Date	December 8, 2003
		First Named Inventor	Julian Adams, et al.
		Group Art Unit	N/A
		Examiner Name	N/A
Sheet 1 of 3	Attorney Docket Number	MPI94-008CP2DV2CN5M	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include the name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and-or country where published.	T ²
JLC	CA	Aoyagi, T. et al., "Structures and Activities of Protease Inhibitors of Microbial Origin," <i>Proteases and Biological Control</i> , Vol. 2, Reich, E., et al., eds., Cold Spring Harbor, NY: Cold Spring Harbor Laboratory Press, pp. 429-454 (1975).	
	CB	Bachovchin, W., et al., "Nitrogen-15 NMR Spectroscopy of the Catalytic-Triad Histidine of a Serine Protease in Peptide Boronic Acid Inhibitor Complexes," <i>Biochem.</i> Vol. 27, pp. 7689-7697 (1988).	
	CD	Berry, S., et al., "Interaction of Peptide Boronic Acids with Elastase: Circular Dichroism Studies," <i>Proteins: Structure, Function, and Genetics</i> , Vol. 4, pp. 205-210 (1988).	
	CE	Castro, B., et al., "Peptide Coupling Reagents VI. A Novel, Cheaper Preparation of Benzotriazoloxymethyl(dimethylamino)phosphonium Hexafluorophosphate (BOP Reagent)," <i>Synthesis</i> , Vol. 11, pp. 751-752 (1976).	
	CF	Dick L., et al., "Degradation of Oxidized Insulin B Chain by the Multiproteinase Complex Macropain (Proteaseome)," <i>Biochem.</i> , Vol. 30, pp. 2725-2734 (1991).	
	CG	Goldberg, A., "The Mechanism and Functions of AIP-Dependent Proteases in Bacterial and Animal Cells," <i>Eur. J. Biochem.</i> , Vol. 203, pp. 9-23 (1992).	
	CH	Goldberg, A. and Rock, K., "Proteolysis, Proteasomes, and Antigen Presentation," <i>Nature</i> , Vol. 357, pp. 375-379 (1992).	
	CI	Hershko, A. and Ciechanover, A., "The Ubiquitin System for Protein Degradation," <i>Annu. Rev. Biochem.</i> , Vol. 61, pp. 761-807 (1992).	
	CJ	Kettner, C. and Shenvi, A., "Inhibition of the Serine Proteases Leukocyte Elastase, Pancreatic Elastase, Cathepsin G, and Chymotrypsin by Peptide Boronic Acids," <i>J. Biol. Chem.</i> , Vol. 259, pp. 15106-15114 (1984).	
JLC	CK	Kettner, C., et al., "Kinetic Properties of the Binding of α -Lytic Protease to Peptide Boronic Acids," <i>Biochem.</i> , Vol. 27, pp. 7682-7688 (1988).	

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		Group Art Unit	N/A		
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Sheet	2	of	3	Attorney Docket Number	MP194-008CP2DV2CN5M

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include the name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and-or country where published.	T ²
gnc	CL	Kinder, D. and Katzenellenbogen J., "Acylamino Boronic Acids and Difluoroborane Analogues of Amino Acids: Potent Inhibitors of Chymotrypsin and Elastase," <i>Journal of Medicinal Chemistry</i> , Vol. 28, pp. 1917-1925 (1985).	
	CM	Kinder, D., et al., "Antimetastatic Activity of Boro-Amino Acid Analog Protease Inhibitors Against B16BL6 Melanoma In Vivo," <i>Invasion Metastasis</i> , Vol. 12, pp. 309-319 (1992).	
	CN	Li, X., et al., "Isolation and Characterization of a Novel Endogenous Inhibitor of the Proteasome," <i>Biochem.</i> , Vol. 30, pp. 9709-9715 (1991).	
	CO	Lim, M., et al., "The Solution Conformation of (D)Phe-Pro-Containing Peptides: Implications on the Activity of Ac-(D)Phe-Pro-boroArg-OH, A Potent Thrombin Inhibitor," <i>Journal of Medicinal Chemistry</i> , Vol. 36, pp. 1831-1838 (June 25, 1993).	
	CP	Matteson D. and Sadhu, K., "(R)-1-Acetamido-2-phenylethaneboronic Acid. A Specific Transition-State Analogue for Cymotrypsin," <i>Journal of Am. Chemistry Soc.</i> , Vol. 103, pp. 5241-5242 (1981).	
	CQ	Murakami, K. and Etlinger, J., "Endogenous Inhibitor of Nonlysosomal High Molecular Weight Protease and Calcium-Dependent Protease," <i>Proc. Natl. Acad. Sci. USA.</i> , Vol. 83, pp. 7588-7592 (1986).	
	CR	Rechsteiner, M., "Ubiquitin-Mediated Pathways for Intracellular Proteolysis," <i>Ann. Rev. Cell Biol.</i> , Vol. 3, pp. 1-30 (1987).	
gnc	CS	Rivett, A., "The Multicatalytic Proteinase. Multiple Proteolytic Activities," <i>Journal of Biological Chemistry</i> , Vol. 264, pp. 12215-12219 (1989).	
	CT	Rivett, A., "The Multicatalytic Proteinase of Mammalian Cells," <i>Arch. Biochem. Biophys.</i> , Vol. 268, pp. 1-8 (1989).	

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gkc	CU	Rock, K., et al., "Inhibitors of the Proteasome Block the Degradation of Most Cell Proteins and the Generation of Peptides Presented on MHC Class I Molecules," <i>Cell</i> , Vol. 78, pp. 761-771 (September 9, 1994).	
	CV	Sheehan, J., et al., "A Rapid Synthesis of Oligopeptide Derivatives without Isolation of Intermediates," <i>J. Am. Chem. Soc.</i> , Vol. 87, pp. 2492-2493 (1965).	
	CW	Takahashi, L., et al., "Crystallographic Analysis of the Inhibition of Porcine Pancreatic Elastase by a Peptidyl Boronic Acid: Structure of a Reaction Intermediate," <i>Biochem.</i> , Vol. 28, pp. 7610-7617 (1989).	
	CX	Tanaka, K., et al., "Proteasomes: Protein and Gene Structures," <i>New Biol.</i> , Vol. 4, pp. 173-187 (1992).	
	CY	Tsai, D., et al., "Diastereoselection in Reactions of Pinanediol Dichloromethaneboronate," <i>Organometallics</i> , Vol. 2, pp. 1543-1545 (1983).	
	CZ	Tsilikounas, E., et al., "Identification of Serine and Histidine Adducts in Complexes of Trypsin and Trypsinogen with Peptide and NonPeptide Boronic Acid Inhibitors by ¹ H NMR Spectroscopy," <i>Biochem.</i> , Vol. 31, pp. 12839-12846 (1992).	
gkc	CCA	Veale C., et al., "Nonpeptidic Inhibitors of Human Leukocyte Elastase. 5. Design, Synthesis, and X-Ray Crystallography of a Series of Orally Active 5-Aminopyrimidin-6-one-Containing Trifluoromethyl Ketones," <i>J. Med. Chem.</i> , Vol. 38, pp. 98-108 (January 6, 1995).	
Examiner Signature	Jost L. P.		Date Considered 1/10/05

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